

**SPECIFICATION
FOR
BLEACHERS, OUTDOOR**

(This specification is released for procurement purposes until revised, or rescinded.)

SCOPE

This specification covers the requirements for outdoor bleachers.

I. APPLICABLE STANDARDS

The following documents of issue in effect on the date of the Invitation for Bids shall form a part of this specification to the extent specified:

THE NORTH CAROLINA STATE BUILDING CODE
Grandstands, Reviewing Stands and Bleachers (Chapters 9, 10, and 16)
N. C. Insurance Department
Engineering and Building Codes Division
P. O. Box 26387
Raleigh, NC 27611

THE NORTH CAROLINA STATE ACCESSABILITY CODE
(Chapters 5, 6, and 22)
N. C. Insurance Department
Engineering and Building Codes Division
P. O. Box 26387
Raleigh, NC 27611

Assembly Seating, Tents, and Membrane Structures (NFPA Standard 102)
National Fire Protection Association (NFPA)
60 Batterymarch Street
Boston, MA 02110

ASTM Standards A-194, A-325, A-490, A-563, A-242, A-606, A-588
American Society For Testing & Materials (ASTM)
1916 Race Street
Philadelphia, PA 19103

II. REQUIREMENTS

A. DESIGNER QUALIFICATIONS

The designer shall be a registered architect or engineer. Each sheet of drawings called for in the Invitation for Bids shall bear the appropriate seal of the design Architect/Engineer as required by Chapter 133, Section 133-1 of the NC General Statutes.

Where the cost of the bleacher is less than \$135,000, the seal of registration of the Architect/Engineer may be that of the Architect/Engineer's state practice.

Where the cost of the bleacher is \$135,000, or more, the seal of registration of the Architect/Engineer shall be that of the State of North Carolina.

B. BIDDER QUALIFICATIONS

Any person, firm, or corporation offering a bid to furnish and erect a bleacher under this specification, which will cost \$30,000, or more, shall have, in accordance with Chapter 87, Section 87-1 of the NC General Statutes, a GENERAL CONTRACTOR'S LICENSE in effect on the date for opening the bids and shall maintain this license in good standing until the project is completed.

C. LICENSES, PERMITS, APPROVALS, ETC.

The successful contractor shall obtain, at his expense, any license, permit, approval, etc. required or necessary to offer a bid and perform the work as required under the contract.

D. DESIGN

The bleacher shall be designed, manufactured and assembled to meet all of the applicable requirements of the North Carolina State Building Code and National Fire Protection Association Standard No. 102 in effect on the date for opening of the bid.

E. AISLES, HANDRAILS, AND GUARDRAILS

Unless otherwise specified, manufacturer's standard aisle, handrail, and guardrail shall be furnished. However, all must comply with the latest N.C. Building Code requirements.

F. ACCESSIBILITY

Accessibility for handicapped persons shall be in accordance with the requirements of the NC STATE ACCESSABILITY CODE in effect on the date of the bid opening.

G. SEATBOARDS FOOTRESTS AND RISERBOARDS

Riserboards shall be designed and installed in accordance with the requirements of NFPA Standard No. 102. Seatboards and footrests shall conform to the load requirements of NFPA Standard No. 102.

H. STRUCTURAL FRAMEWORK

Structural framework shall meet load requirements of the current N.C. Building Code. Materials for framework may be structural steel, aluminum or high strength, low alloy steel. High strength, low alloy steel shall be ASTM A-242, Type 1; A-606, Type 4; or A-588 steel. Unless otherwise specified in the Invitation For Bids, all structural framework members shall be of the same material.

I. FRAMEWORK FINISH

1. Structural Steel

Unless otherwise specified in the Invitation For Bids, or by the Architect/Engineer, all structural steel members and other steel parts to be hot dipped galvanized after fabrication with a minimum deposit of 2.0 oz. of zinc coating per square foot.

Repair any damaged hot dipped galvanized coating with galvanized repair paint in accordance with ASTM A780 and the manufacturer's written instructions.

2. High Strength, Low Alloy Steel

Unless otherwise specified in the Invitation For Bids, or by the Architect/Engineer, High Strength, Low Alloy Steel will require no further finishing for protection from weather and corrosion. Anchor bolts and structural bolts used with this type of steel shall also be of the same type of steel.

3. Aluminum

Aluminum framework requires no further finishing for protection from weather and corrosion.

J. FIELD ASSEMBLY

The method of assembly and the fastening devices shall be as specified by the Architect/Engineer and shall conform to the requirements of the NC Building Code and NFPA Standard 102. Installers shall not deviate from the specified method of assembly, or the specified fastening devices. Assembly shall be in strict accordance with the shop drawings provided. No deviation is permitted. Loose nuts, missing bolts, and missing structural components are not acceptable.

K. MUD SILLS

When desired, or specified in the IFB, mud sills shall be provided in accordance with NFPA Standard 102.

L. SLAB ON GRADE

When desired, or specified in the IFB, the slab should be constructed in accordance with the local building code.

M. PLAN/SITE DRAWINGS

A plan/site drawing showing bleacher units along with all required aisles, steps, guardrails, ADA facilities, site elevations, etc. in relation to the bleacher and its egress points is required with the bidder's proposal. This drawing should be detailed enough to allow the evaluation and award of the contract. This drawing is not to be construed as an erection drawing. This site plan need not bear the seal of the design Architect or Engineer.

N. ERECTION/SHOP DRAWINGS

The successful contractor shall submit a specified number of copies of customized erection/shop drawings to the agency purchasing entity and the end user prior to fabricating and shipping the bleacher. These drawings shall include detailed information as to required aisles, steps, guardrails, ADA facilities, site elevations, etc. in relation to the bleacher and its egress points, the identification, size, weight per foot, etc. of each major part of the structure and the methods used in joining components. This drawing shall provide all of the necessary information required to erect the bleacher in accordance with the manufacturer's design requirements. This drawing shall bear the seal of the design Architect or Engineer.

III. WARRANTY

The contractor warrants to the owner that the bleacher (and installation if called for) furnished under this specification will be new, of good material and workmanship, and agrees to replace promptly any part or parts which by reason of defective material or workmanship shall fail under normal use, free of negligence or accident, for a minimum period of 12 months from date of acceptance. Such replacement shall be free of any charge to the owner or his representative.

IV. SERVICE, PARTS, AND MANUALS

The contractor shall furnish complete written instructions for maintenance of the bleacher unit, and a list of replacement parts or assemblies.

V. ACCEPTANCE EVALUATION AND QUALITY ASSURANCE

Prior to acceptance and payment, the bleacher (and installation if called for) is subject to inspection by the owner or his authorized representative for compliance with this specification and the Invitation for Bids.

VI. DELIVERY AND PAYMENT

Delivery and payment for bleachers furnished under this specification shall be in accordance with the terms and conditions of the Invitation for Bids. The contractor shall be responsible for any packing, packaging, or protection required to insure delivery in an undamaged condition.

VII. ORDERING DATA

Purchasers should exercise any desired option offered herein and should specify the following in the Invitation For Bids:

1. Title, number, and date of this specification.
2. Number of rows, overall length and approximate seating capacity.
3. Specify seatboard and riserboard material, if desirable

4. Specify mudsills, if desired
5. Specify a slab on grade, if desired
6. Any requirement that exceeds the requirements of this specification.

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